

Tonight---COLISEUM---Tonight

FOLLOW THE CROWD AND YOU WON'T MISS IT

3 high grade Vaudeville Acts, a show of quality and quantity this week.

Admission 10c

Reserves 5c and 10c

TUESDAY NIGHT

DEVERNE & VAN---Comedy Singing and Musical Act
SHIRLOCK & HOMES---Singing, Talking and Dancing
and WINFIELD SCOTT in the Lone Lost Chief

PRESERVATION OF VALLEY'S DITCHES

SUGGESTIONS BY ENGINEER W.
A. FARISH

Efficiency of Different Ditch Linings
and Economy of Water and
Labor Discussed

At a time like this, when the canals and ditches are running under full head of water, the irrigationist in the valley is confronted with the problem of keeping the ditches in repair. In California, where a drop of water has a greater intrinsic value than here, a large proportion of the ditches are cement lined at enormous cost and constant repairing done away with. In the Salt River valley, on the contrary, the ditches, especially at this time of the year, are covered along the sides with a dense undergrowth of weeds and grass that tends to obstruct the flow of the stream and makes necessary a constant clearing away of the rubbish. Sooner or later the reclamation

service and the rancher will have to take steps toward the permanent preservation of the ditches. Engineer W. A. Farish of the reclamation service was asked to contribute his views as to the best method of ditch preservation adaptable for this valley. Mr. Farish is a recognized authority on this subject, and his suggestions, on a topic that is far more important than it might appear to one who has not investigated it, should carry weight and be duly considered. "Anyone interested in the irrigation problem of the valley," said Mr. Farish, "is struck by the expense of keeping the canals free from vegetation to enable them economically to deliver water to the lands they serve. In summer, when rain has been abundant, few small ditches can be found in which the velocity is not retarded, and whose courses can not be readily traced, by the luxuriant growth of weeds, Johnson grass, etc. The banks of the main canals also become veritable jungles of brush and weeds of various kinds unless men are kept continually cleaning them. "Any vegetation which impedes the flow of water in a canal adds to the natural seepage and evaporation losses incident to this method of carrying water, and causes the deposition of silt, making cleaning ex-

pensive and frequent. "The gravity of this problem is recognized by many and few attempts have been made to solve it. In one of the agricultural bulletins the results of experiments on the loss of water in earthen ditches is given by the following table:

Canals carrying 4,000 inches and over	Canals carrying between 2,000 and 4,000 inches	Canals carrying between 1,000 and 2,000 inches	Canals carrying less than 1,000 inches
Loss..... 95% per mile	Loss..... 2.50% per mile	Loss..... 4.21% per mile	Loss..... 11.28% per mile

"The average loss in canals is approximately 1 per cent a mile. It is common practice to allow 30 per cent of the water taken in at the headgate for loss in the ordinary canal, and as it is probable as much more is lost in transit through the distributing ditches, it is safe to say fully one-half the water taken through the headgate is lost before it can be applied to the soil.

"The following table shows results of experiments made to determine the efficiency of ditch linings in California:

	per Cent Saved	Experimental Cost per Sq. Ft.	Actual Cost Per Ft.
Cement concrete, 3 in. thick.....	86.6	8.3	8.3
Cement concrete, 3 in. thick.....	86.6	8.3 cts.	8.3 cts.
Cement mortar.....	64.3	3.88	3.25 to 3.5
Heavy oil, 3 2-3 gal. to sq. yd.....	50.4	1.29	1.29
Heavy oil, 3 gal. to sq. yd.....	28	1	1
Heavy oil, 2 1-2 gal. to sq. yd.....	27.3	.77	.77
Thin oil, 2 1/2 gal. to sq. yd.....	7.3	1	.8

"This table shows conclusively that cement concrete lining is the most expensive as well as the best; but in this valley, where water is not as valuable as in California, seepage losses are not such an important factor if the ditch can be kept in good condition to deliver at all times its full capacity by preventing the growth of vegetation on its sides and banks, thus eliminating the labor and expense of cleaning.

"This can be done cheapest, in my opinion, by first cleaning and repairing the ditch properly and then treating its bottom, sides and banks with a heavy asphaltic oil; by sprinkling the oil while hot from some cheap sprinkling cart and then raking the oil thoroughly into the earth with either a harrow or hand rakes. The oil could be sprinkled from an ordinary sprinkling can and raked in with

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THE FAULTY AIM OF A JAPANESE SHOOTER

Joe Hosoda Shot at the Sun and Hit a Cow.

Deputy Sheriff Wayne Davis yesterday arrested a Japanese vegetable gardener by the name of Joe Hosoda, who is charged with having shot a valuable cow, though not fatally, belonging to a Mrs. Barch. He was released on bond and will be given a hearing before Justice Barker next Thursday. Hosoda lives on the Hans Herlick ranch and the owner of the cow lives on an adjoining ranch. Last Friday the cow invaded the Jap's preserves and he discharged a shotgun in her direction, many of the shot penetrating the udder so that since then she had been supplying the family with blood instead of milk. Hosoda does not deny the shooting, but says his purpose was merely to shoot over the head of the cow and frighten her, and he aimed a little too low, though it is understood he was successful in scaring the animal.

AT THE THEATERS

Last night was a good night at both of the theatres. Conditions point for two packed houses at both the Majestic and Coliseum tonight for the change of bills. This summer has supply proved Phoenix to be a vaudeville town. Acts have been supported here week after week that generally are a losing proposition in cities twice the size of Phoenix. Both of the bills tonight are high-priced ones. The managements of the vaudeville houses state that later in the fall, when the air-raid are covered, still higher priced acts will be brought here and will more than pay for themselves. Manager Ebbelin of the Majestic stated last evening that Al Bind would open here the 14th and will be here for the 15th to give the Tucson Elks an open house. Reeves and Wood of the Coliseum are also to have a treat for Tucson that will be equal to Al Bind.

What it is to be would not be given out at this time. No show was given at the Grand last night, but a dance instead, which was well attended.

Majestic

Joe Egan in his Italian hand-organ man is even better than he has been before. Joe Egan is very versatile. He is not at his best in Phoenix. In characterization he goes below the surface and reflects the oddities of the character impersonated, generally overlooked in vaudeville.

Dave Morris was of course good. His work is different than that of Egan's, running more along the lines of musical comedy. His Hebrew work is better than the Italian.

Last night closed the engagement of Mr. and Mrs. Nell Litchfield in their comic sketch, the like of which will not be seen here for many a day. Their character work is different, so very different, from the run of rural impersonations. That is why it is so good.

Coliseum

Steels and McMaisters still take the lead here in a novelty act which has been well worth the enormous price paid for it.

Westerner was not as good as usual, although he is positive of getting a hand with his originality of attack.

The Arabian tumbler will be missed.

OF LOCAL INTEREST

GOVERNOR COMING—Governor Sloan is expected in Phoenix tomorrow. He is now at the Grand canyon, accompanied by his family. He will remain in Phoenix several days before returning to Prescott. After October 1 his home will be in this city.

EXALTED RULER HERE—Exalted Ruler George P. Driscoll of the local Elks' lodge returned yesterday from his trip in the east. After attending the celebration in Los Angeles he went to St. Louis and Chicago, and then to his former home in Portland, Me.

TO RECEIVE BRIDGE PLANS—The board of supervisors will meet at 4 o'clock this afternoon to open and consider the different sets of plans submitted for the Center street bridge. There is a general gathering of engineers in Phoenix today in consequence.

LABOR DAY—Labor day was quite

generally, though quietly, observed in Phoenix yesterday by everybody except the laborers, most of whom worked along as usual. All the public offices, banks, stores and official centers were closed most of the day and the town bore its usual Sunday appearance, especially in the afternoon. About the only entertainment was a couple of uninteresting street fights.

A NEW HACK—Since the Club stables came into the hands of T. J. Walker an effort has been made to widen the business lines of that institution. The latest is the purchase of a new hack, which can now be found on the city streets with the ribbons running to the fingers of "Count" the veteran hack driver of the city. This is a new departure for the Club stables, which hitherto have not participated in the hack business, but have been confined to a livery business strictly.

RETURNS TODAY—R. A. Fowler, president of the Water Users' association will return today, after an absence of a few weeks. He has been in Los Angeles, whither he went after the meetings of the irrigation congress in Spokane. Last Saturday he was one of those to attend a reception given to Chief Forester Pinchot in Los Angeles. It is expected that Mr. Fowler will arrive in time to attend the meeting of the board of governors of the Water Users' association today.

BORROWED MANY DOLLARS—Frank Bower, a barber, was arrested yesterday on complaint from his employer that the man was using the firm's name for the purpose of making numerous small loans of one dollar each. When Bower was taken to the city jail, a little the worse for liquor, he said that he was about to come into an estate of several thousand dollars. He said that he had a check for \$700, but that he had been "rolled" for it. He made so many one-dollar loans that his employer objected and caused his arrest. A charge of disorderly conduct will be placed against him.

EMANCIPATION CELEBRATION—Tanner chapel, A. M. E. church, was

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well filled last night with enthusiastic workers for the emancipation celebration to be held in this city September 22. The following officers were elected: Allen Smith, president; Frank Shirley, vice president; Miss A. B. Scott, secretary; Mrs. J. C. Williams, assistant secretary; Rev. W. H. Burgess, treasurer. In charge of the subcommittees are Fred Gardiner, J. H. Robinson, Charles G. Mortimer, John Beck, Mrs. Frank Shirley, Samuel Steele, Sr., Mr. and Mrs. F. McAlister, Elma Skaggs, John E. Lewis and R. J. Randall. Many floats and cars were secured for the parade, which will leave the church at 10 o'clock on the 22d, being led by the Indian school band. J. L. B. Alexander will be one of the principal orators of the day at Eastlake park.

Run Down?

Ask your doctor all about Ayer's Sarsaparilla. Entirely free from alcohol. A strong tonic and alterative.

Ayer's Sarsaparilla is a tonic. It does not stimulate. It does not make you feel better one day, then as bad as ever the next. There is not a drop of alcohol in it. You have the steady, even gain that comes from a strong tonic. Ask your doctor all about this.

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The Orange Grove 40 Acres, 23 Acres Bearing

This is absolutely the finest Orange buy in the valley. Twenty acres are full bearing Navels, and has the best record for price received and quality of fruit produced. Three acres in full bearing Lemons, balance in Alfalfa, other Fruits, etc.

Fine modern home, barns, etc. Water piped everywhere. With all machinery, packing boxes, etc. Price for all \$29,000.

The Alfalfa Ranch 80 Acres at \$135 per acre

This is located two and a half miles west of Capitol Building. The 80 acres is fenced and cross-fenced. Has a fine stand of Alfalfa. The soil is the best. This cannot be beat in Salt River valley today for the price. It is a snap. Only \$135.00 per acre, and \$2000 cash will handle this.

The Business Property Washington Street Block

We can offer the prospective purchaser of inside income Phoenix business property, a first-class two-story, 50-foot business block on North side of Washington street, at a price that will surely make the purchaser \$10,000 in one year. This can be bought on very comparative small payments. Investigate at once. Full information at our office.

The City Residence New Modern Brick, \$3200

This is a regular \$3500 proposition. \$3200 will buy it right now. Located on beautiful West Adams street, corner Tenth Avenue, near Carnegie Library. Just completed. Six rooms; Mission finish; modern throughout. Save rent; buy this. It will be worth more this winter. Or if you want an investment we have a client that will lease this house by the year for \$55 per month.

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